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- 1. A communication system for providing communication services to a plurality of communication devices, the communication system comprising:
  - a transmitting antenna;
- a transmitter connected to the transmitting antenna and configured to transmit first wireless signals via the transmitting antenna;
  - a first receiving antenna wherein a first coverage area of the first receiving antenna is less than forty five degrees;

a first receiver connected to the first receiving antenna and configured to receive second wireless signals via the first receiving antenna;

a second receiving antenna wherein a second coverage area of the second receiving antenna is less than forty five degrees and the second coverage area of the second receiving antenna is within the first coverage area;

a second receiver connected to the second receiving antenna and configured to receive third wireless signals via the second receiving antenna; and

a communication interface connected to the transmitter, the first receiver, the second receiver, and a communication network and configured to provide the communication services between the communication network and the user communication devices.

- 2. The communication system of claim 1 wherein the first wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.
  - 3. The communication system of claim 1 wherein the first wireless signals are in the Multipoint Distribution Service (MDS) frequency range.
  - 4. The communication system of claim 1 wherein the second wireless signals and the third wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.

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- 5. The communication system of claim 1 wherein the second wireless signals and the third wireless signals are in the Multipoint Distribution Service (MDS) frequency range.
- 5 6. The communication system of claim 1 wherein the user communication devices comprise wireless broadband routers.
  - 7. The communication system of claim 1 wherein the transmitting antenna comprises an omni-directional antenna.
  - 8. The communication system of claim 1 wherein the first coverage area of the first receiving antenna is thirty six degrees.
  - 9. The communication system of claim 1 wherein the first coverage area of the first receiving antenna is twenty four degrees.
  - 10. The communication system of claim 1 wherein the second coverage area of the second receiving antenna is twenty four degrees.
- 11. The communication system of claim 1 wherein the second coverage area of the second receiving antenna is twelve degrees.
  - 12. The communication system of claim 1 wherein the communication interface comprises a downstream manager.
  - 13. The communication system of claim 1 wherein the communication interface comprises an upstream manager.

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14. A method for providing communication services to a plurality of communication devices, the method comprising:

in a transmitter, transmitting first wireless signals via a transmitting antenna;

in a first receiver, receiving second wireless signals via a first receiving antenna wherein a first coverage area of the first receiving antenna is less than forty five degrees;

in a second receiver, receiving third wireless signals via a second receiving antenna wherein a second coverage area of the second receiving antenna is less than forty five degrees and the second coverage area of the second receiving antenna is within the first coverage area; and

in a communication interface connected to the transmitter, the first receiver, the second receiver, and a communication network, providing the communication services between the communication network and the user communication devices.

- 15. The method of claim 14 wherein the first wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.
- 16. The method of claim 14 wherein the first wireless signals are in the Multipoint Distribution Service (MDS) frequency range.
  - 17. The method of claim 14 wherein the second wireless signals and the third wireless signals are in the Multichannel Multipoint Distribution Service (MMDS) frequency range.
  - 18. The method of claim 14 wherein the second wireless signals and the third wireless signals are in the Multipoint Distribution Service (MDS) frequency range.
- 19. The method of claim 14 wherein the user communication devices comprise wireless broadband routers.

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- 20. The method of claim 14 wherein the transmitting antenna comprises an omnidirectional antenna.
- 5 21. The method of claim 14 wherein the first coverage area of the first receiving antenna is thirty six degrees.
  - 22. The method of claim 14 wherein the first coverage area of the first receiving antenna is twenty four degrees.
  - 23. The method of claim 14 wherein the second coverage area of the second receiving antenna is twenty four degrees.
  - 24. The method of claim 14 wherein the second coverage area of the second receiving antenna is twelve degrees.
  - 25. The method of claim 14 wherein the communication interface comprises a downstream manager.
- 26. The method of claim 14 wherein the communication interface comprises an upstream manager.